

Ink-Jet Formulation Fundamentals

One-Day Training Workshop

9th June 2016, Jurys Inn Hotel, East Midlands Airport, UK

From  **iFormulate Skills**

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EARLY-BIRD DISCOUNT!**

Who Should Attend?

Scientists and technicians seeking an introduction to ink-jet formulation and the basics of digital ink-jet printing

Technologists involved in the ink-jet supply chain (e.g. raw materials, consumables suppliers, printer manufacture) who need a better understanding of ink formulation

Commercial personnel in all parts of the ink-jet supply chain who need a more thorough grounding in ink formulation

Why Should You Attend?

By attending you will :

Learn about the principles of ink-jet printing

Better understand the science that underpins stable ink formulation

Receive an introduction to the main print-head technologies and printer architectures

Learn about the different types of ink-jet colorants, their key properties and performance in formulations

Understand the function and performance of the main additives used in aqueous ink-jet formulations

Know how inks are tested and prints are evaluated

Gain an overview of newer applications for ink-jet technology

Workshop Programme

1. Science Basics for Formulation

Particles, colloids and dispersions and how to stabilise them

- Adhesion science basics

2. Ink-jet Technology Basics

- Print head technologies and architectures
- Piezo and thermal printheads
- Continuous & drop-on-demand printing
- Print head manufacturers

3. Colours for Ink-jet

- Dyes and pigments – advantages and disadvantages
- Key colorant properties - solubility, pH sensitivity, hue, light fastness
- Pigment formulation properties: milling or self-dispersing, particle size, stability

4. Formulation Properties and Ingredients

- Materials used in inks and their functions: wetting, surface tension, humectancy etc.
- Polymers, surfactants, buffers
- Performance in the ink, during printing and on the substrate

5. Ink Testing and Print Evaluation

- Ink and print performance criteria - Ink stability, open time, clogging
- Reflected optical density, print quality and fastness properties.

6. Further Uses and Formulation Considerations

- Printed electronics
- Textile printing
- 3D printing

Registration

To register go to www.iformulate.biz/training-and-events/ink-jet-formulation-fundamentals/

Fees: **£349 + VAT** (registration by 1 April 2016) or **£399 + VAT** (registration after 1 April 2016)

Any questions? Just e-mail info@iformulate.biz

W: www.iformulate.biz